

REMARKS/ARGUMENTS

Claims 1, 2, 4, 10, 11, 22, 23, 25, 29, and 73-84 have been allowed.

Please substitute the enclosed Substitute Sequence Listing for that currently in the case. The Substitute Sequence Listing contains the sequences that appear in the Specification, but which were not previously assigned SEQ ID Nos. No new matter is added.

The Specification is amended at page 30, lines 12-30 to correct typographical spelling errors. The Specification also has been amended at page 9, line 20 and at page 30, line 30 to correct an obvious scientific error. The error is simply that the change from codon “CCC” to “CTC” (see lines 29-30) does not result in a change from “Pro” to “His”, but from “Pro” to “Leu.” This amendment merely states the scientific fact correctly, and is known to those skilled in the art. No new matter is added.

The Specification is also hereby amended to separate the description of Figure 5 into Figure 5A and Figure 5B, as helpfully suggested by the Examiner, and to include the new SEQ ID NOS:19-23 in the description of Figures 5A and 5B.

Applicants hereby submit corrected formal drawings for Figures 1, 2, 3, 4, 5A, 5B, and 6. The figure numbering of Figures 1, 2, 3, 4, 5A, 5B, and 6 have been corrected to remove reference to the total number of figures. Figure 5B has been corrected to align the label “consensus sequence” with the nucleic acid sequence at the bottom of the Figure. The correction merely adjusts the drawing for clarity and is inherently supported as the bottom nucleic acid sequence shows the designation “R” where the mutation occurs. The designation “R” is commonly used to refer to either “A” or “G”. Applicants have also removed the extraneous box from the Figure for a clean appearance. Thus, no new matter is added. A full

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description of the data shown in figures 5A and 5B appears in the Specification on page 29, lines 23-29 through page 30, lines 1-30.

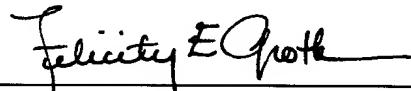
Figure 5A has been corrected to remove the label "consensus sequence" as the figure does not show a consensus sequence as in Figure 5B. No new matter is added.

CONCLUSION

Applicants earnestly submit that the formal requirements for patentability are met and that the case is in condition for allowance.

Respectfully submitted,

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